

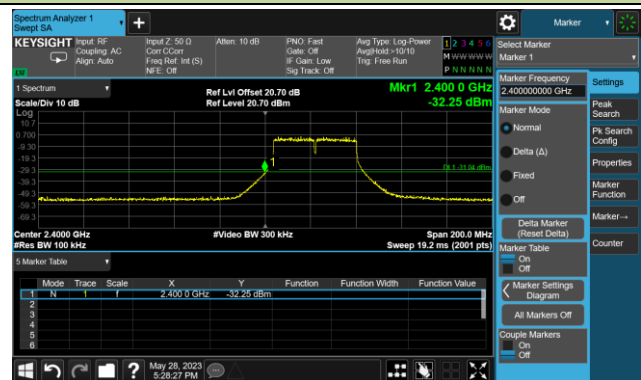
802.11n-HT40 Out-of-Band Emissions – Ant 2

Channel 03 (2422MHz)

100kHz PSD Reference Level



Low Band Edge

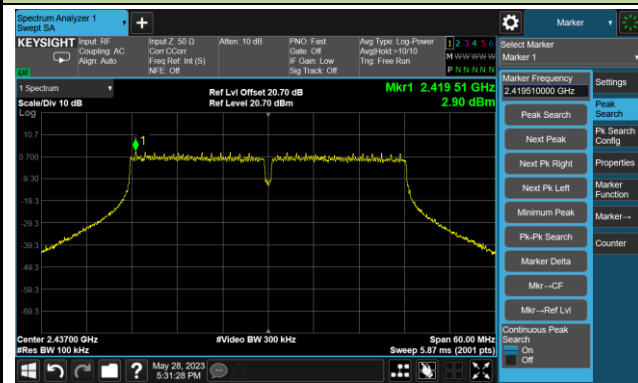


Spurious Emission



Channel 06 (2437MHz)

100kHz PSD Reference Level



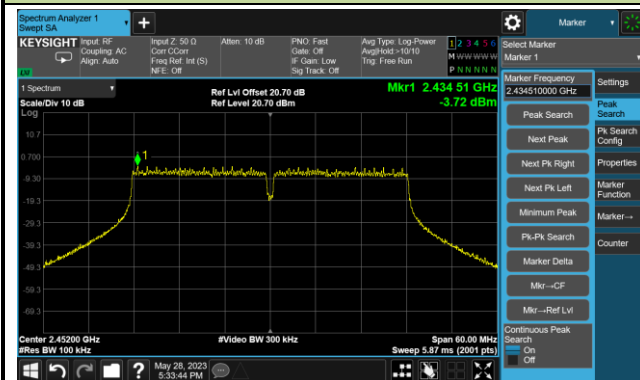
Spurious Emission



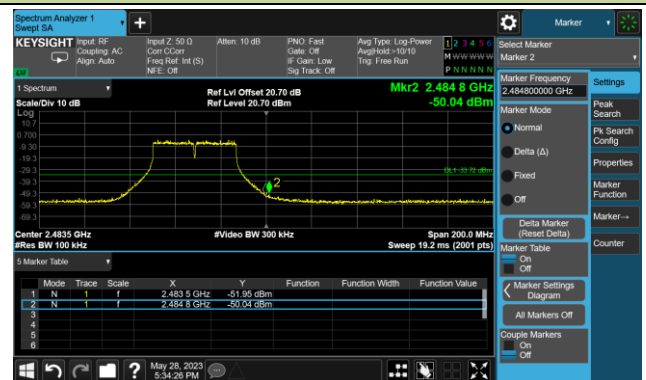
802.11n-HT40 Out-of-Band Emissions – Ant 2

Channel 09 (2452MHz)

100kHz PSD Reference Level



High Band Edge



Spurious Emission



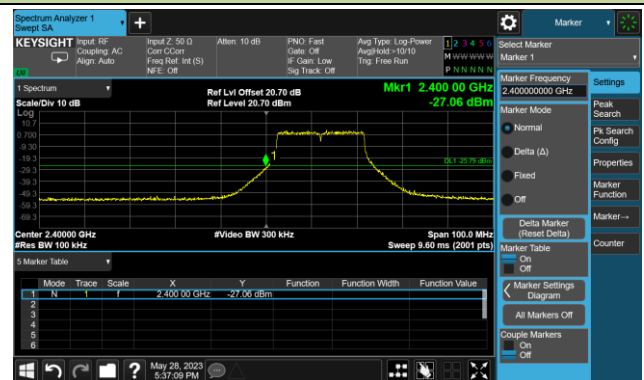
802.11ax-HE20 Out-of-Band Emissions – Ant 2

Channel 01 (2412MHz)

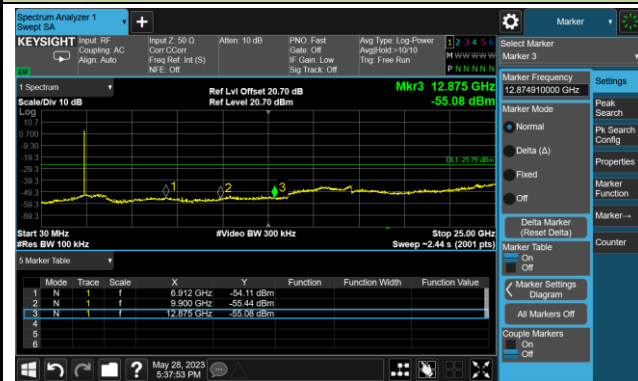
100kHz PSD Reference Level



Low Band Edge

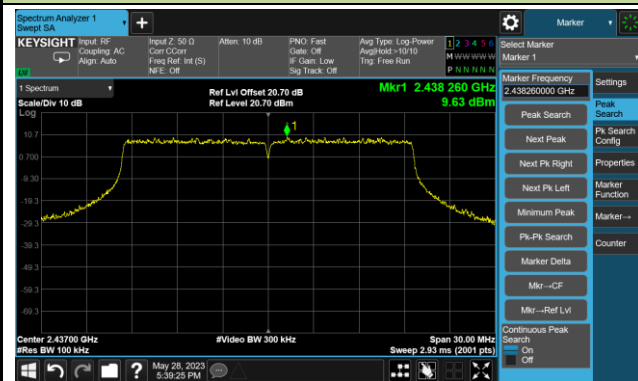


Spurious Emission



Channel 06 (2437MHz)

100kHz PSD Reference Level



Spurious Emission



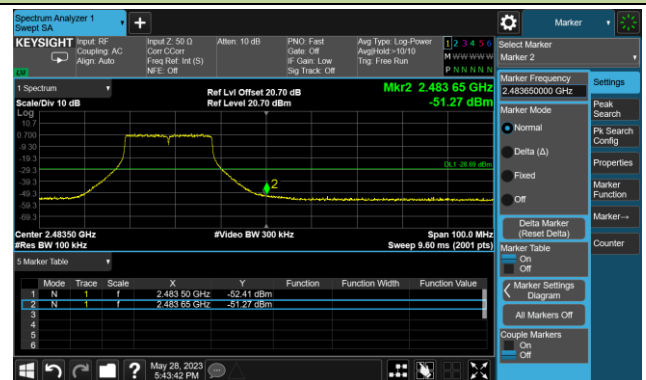
802.11ax-HE20 Out-of-Band Emissions – Ant 2

Channel 11 (2462MHz)

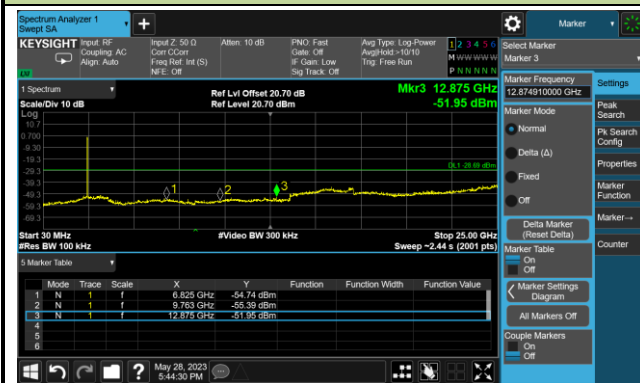
100kHz PSD Reference Level



High Band Edge



Spurious Emission



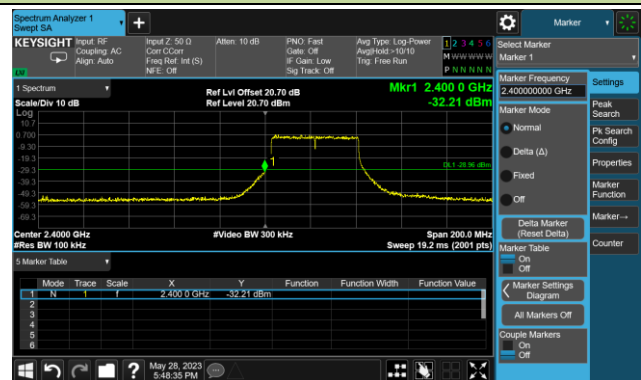
802.11ax-HE40 Out-of-Band Emissions – Ant 2

Channel 03 (2422MHz)

100kHz PSD Reference Level



Low Band Edge

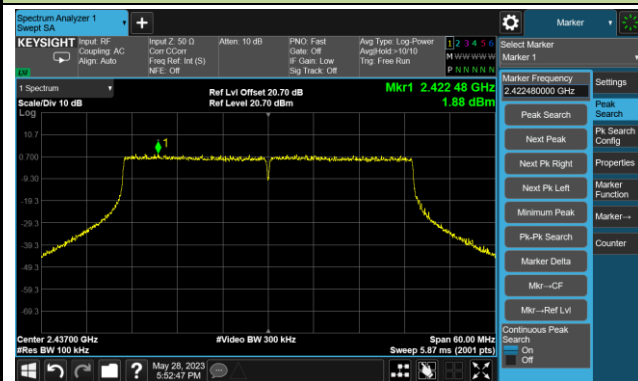


Spurious Emission



Channel 06 (2437MHz)

100kHz PSD Reference Level



Spurious Emission



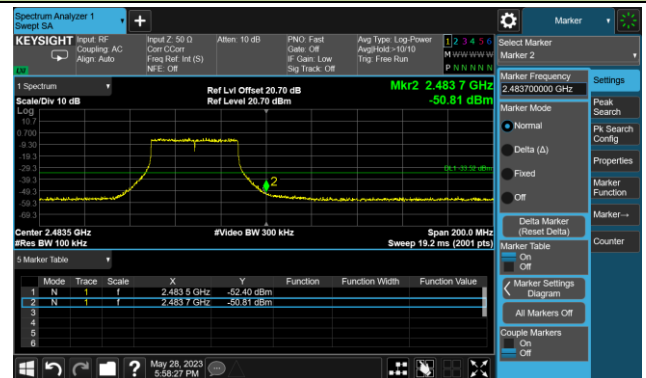
802.11ax-HE40 Out-of-Band Emissions – Ant 2

Channel 09 (2452MHz)

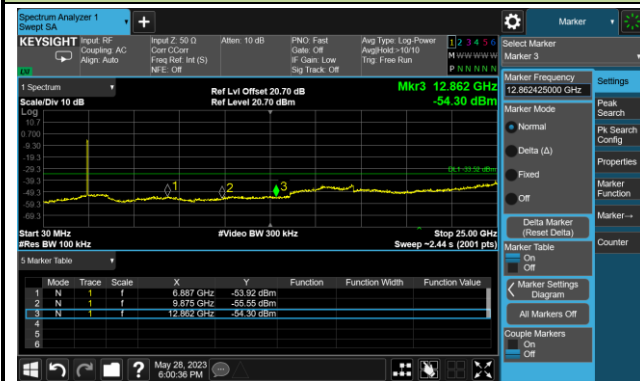
100kHz PSD Reference Level



High Band Edge



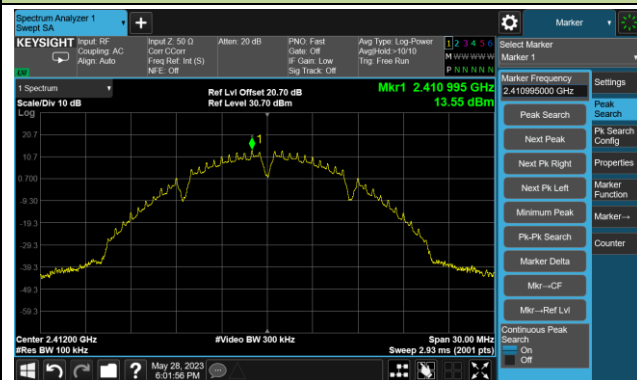
Spurious Emission



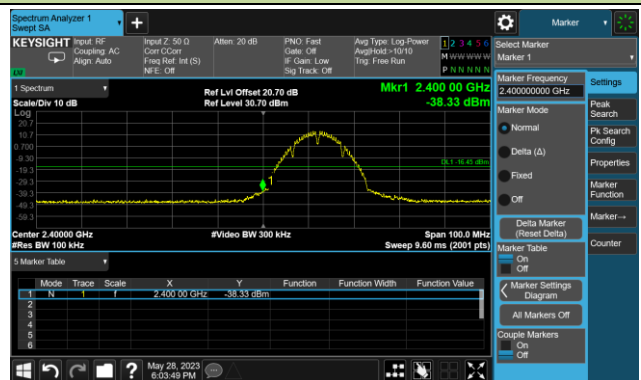
802.11b Out-of-Band Emissions – Ant 3

Channel 01 (2412MHz)

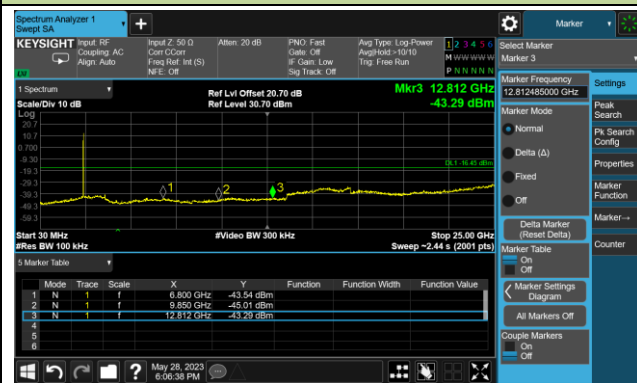
100kHz PSD Reference Level



Low Band Edge



Spurious Emission



Channel 06 (2437MHz)

100kHz PSD Reference Level



Spurious Emission



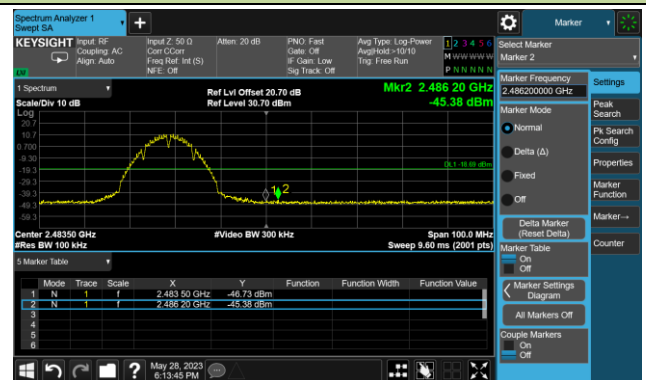
802.11b Out-of-Band Emissions – Ant 3

Channel 11 (2462MHz)

100kHz PSD Reference Level



High Band Edge



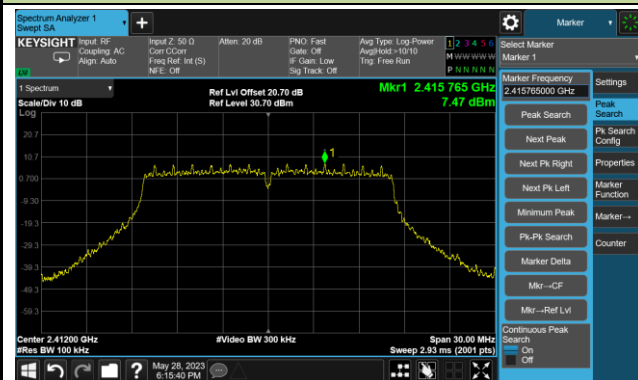
Spurious Emission



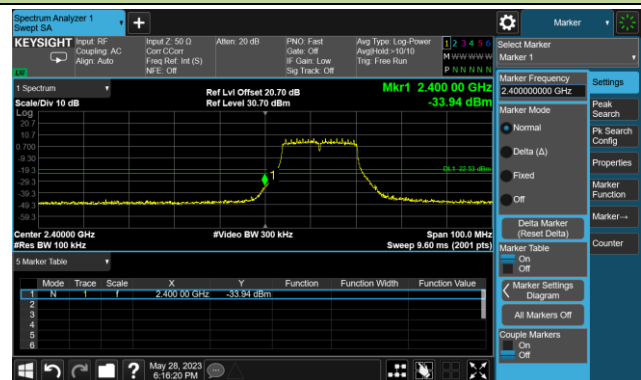
802.11g Out-of-Band Emissions – Ant 3

Channel 01 (2412MHz)

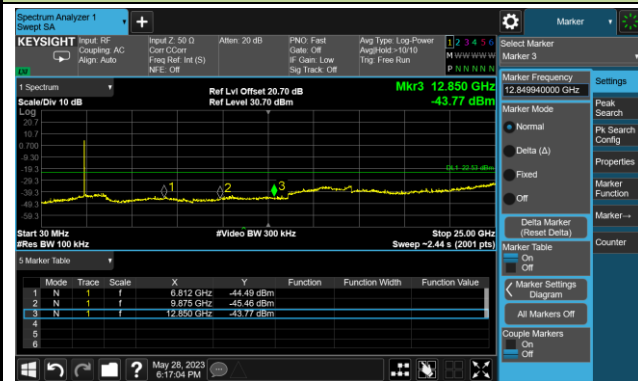
100kHz PSD Reference Level



Low Band Edge

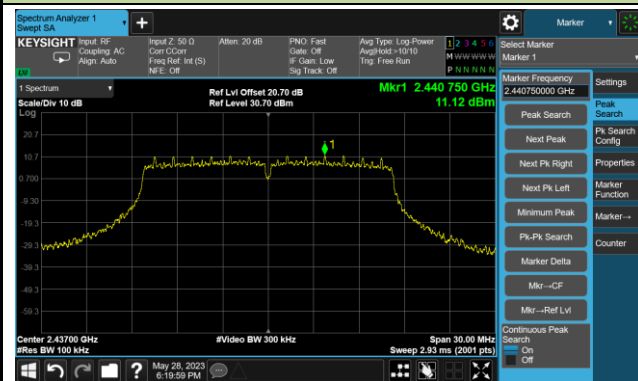


Spurious Emission



Channel 06 (2437MHz)

100kHz PSD Reference Level



Spurious Emission



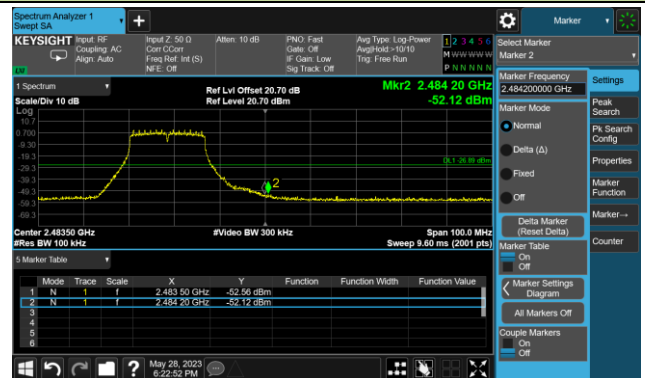
802.11g Out-of-Band Emissions –Ant 3

Channel 11 (2462MHz)

100kHz PSD Reference Level



High Band Edge



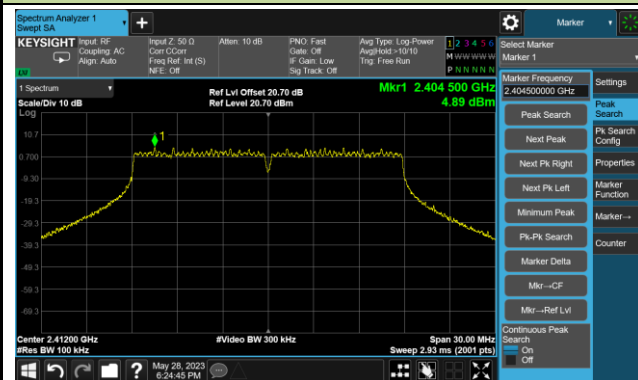
Spurious Emission



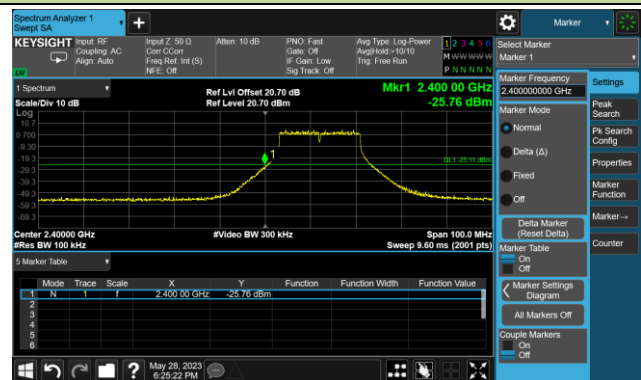
802.11n-HT20 Out-of-Band Emissions – Ant 3

Channel 01 (2412MHz)

100kHz PSD Reference Level



Low Band Edge

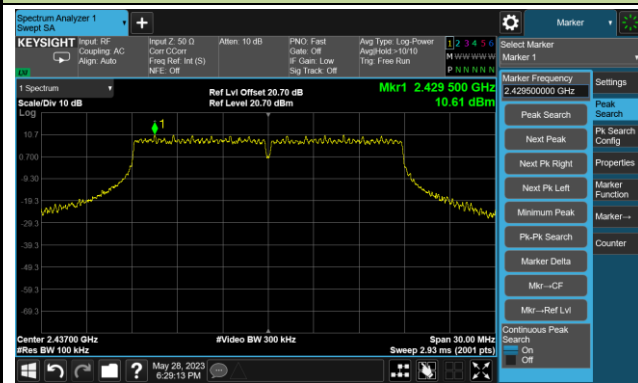


Spurious Emission



Channel 06 (2437MHz)

100kHz PSD Reference Level



Spurious Emission



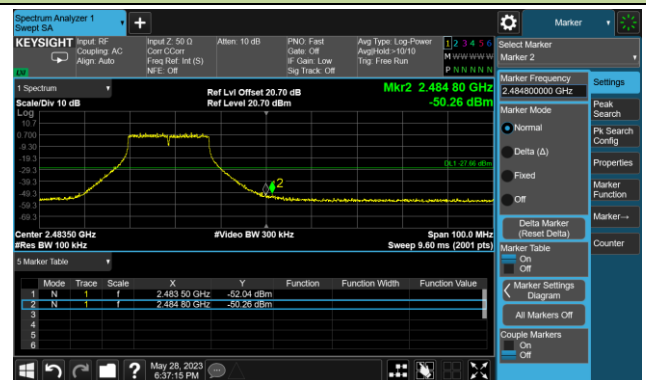
802.11n-HT20 Out-of-Band Emissions – Ant 3

Channel 11 (2462MHz)

100kHz PSD Reference Level



High Band Edge



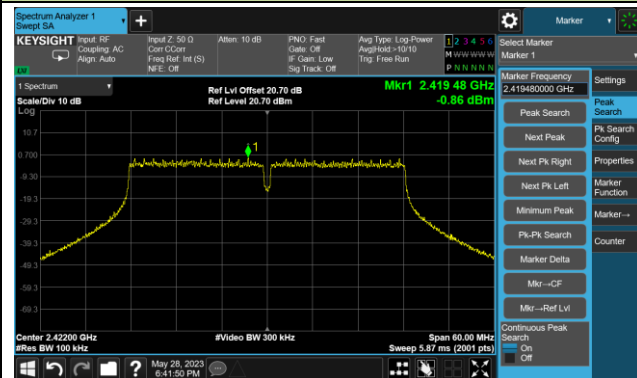
Spurious Emission



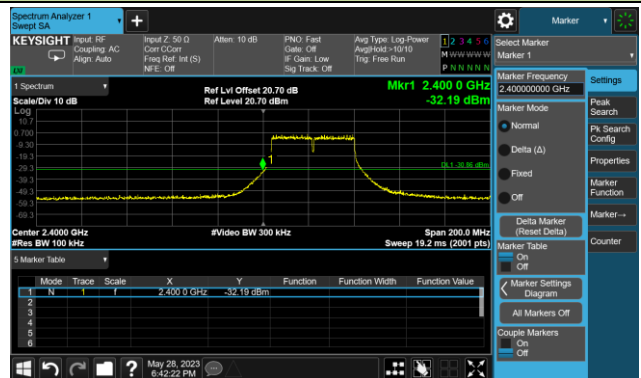
802.11n-HT40 Out-of-Band Emissions – Ant 3

Channel 03 (2422MHz)

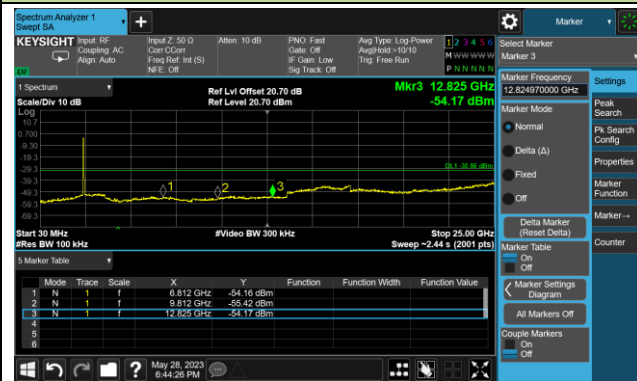
100kHz PSD Reference Level



Low Band Edge



Spurious Emission



Channel 06 (2437MHz)

100kHz PSD Reference Level



Spurious Emission



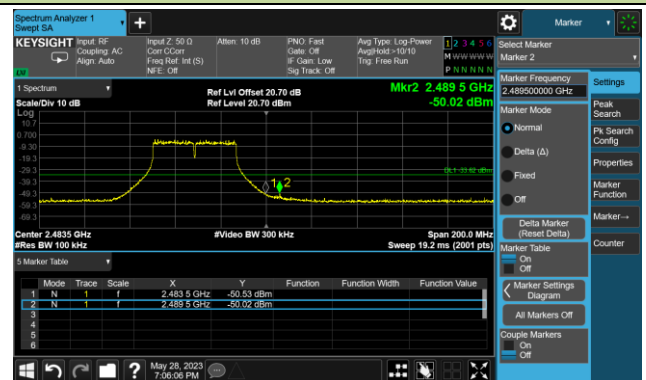
802.11n-HT40 Out-of-Band Emissions – Ant 3

Channel 09 (2452MHz)

100kHz PSD Reference Level



High Band Edge



Spurious Emission



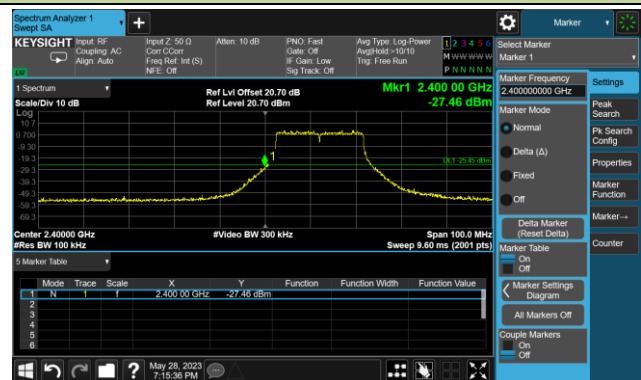
802.11ax-HE20 Out-of-Band Emissions – Ant 3

Channel 01 (2412MHz)

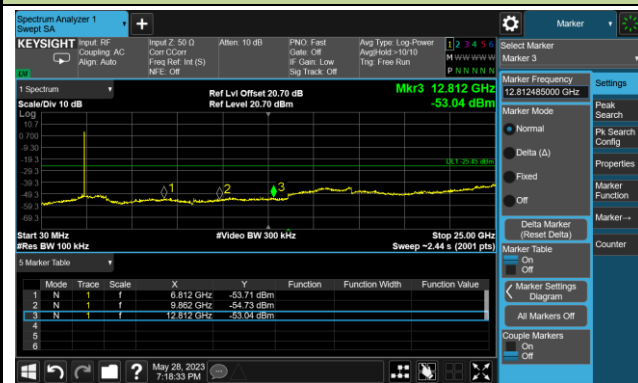
100kHz PSD Reference Level



Low Band Edge



Spurious Emission



Channel 06 (2437MHz)

100kHz PSD Reference Level



Spurious Emission



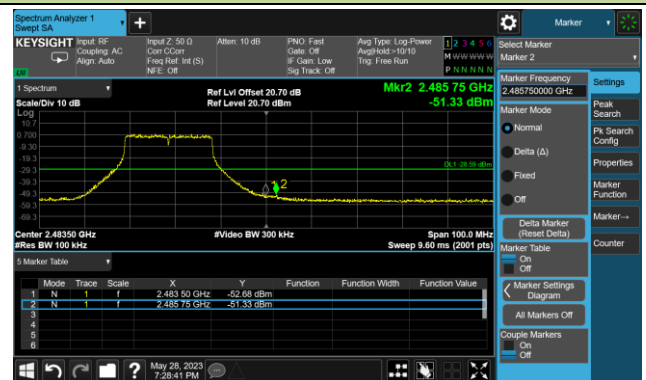
802.11ax-HE20 Out-of-Band Emissions – Ant 3

Channel 11 (2462MHz)

100kHz PSD Reference Level



High Band Edge



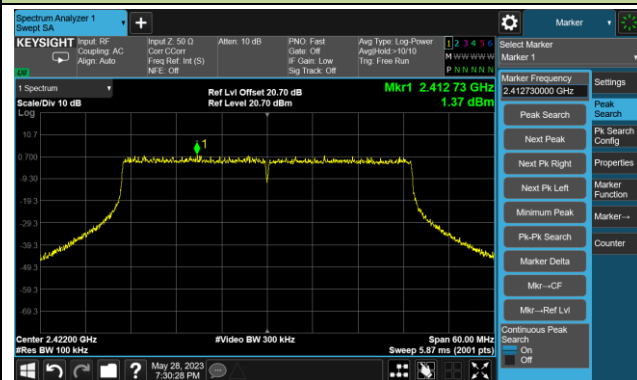
Spurious Emission



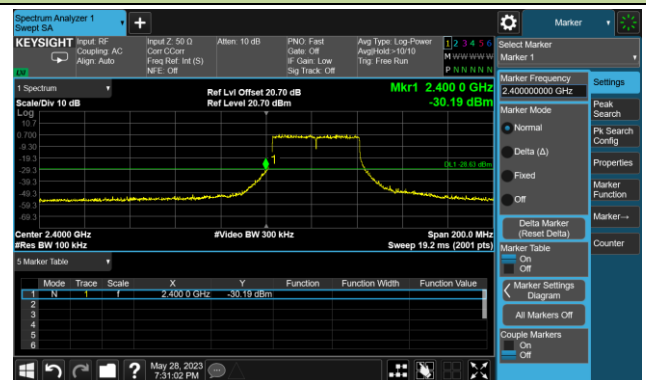
802.11ax-HE40 Out-of-Band Emissions – Ant 3

Channel 03 (2422MHz)

100kHz PSD Reference Level



Low Band Edge



Spurious Emission



Channel 06 (2437MHz)

100kHz PSD Reference Level



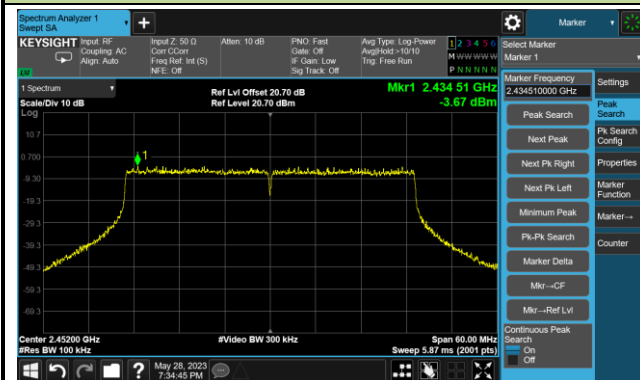
Spurious Emission



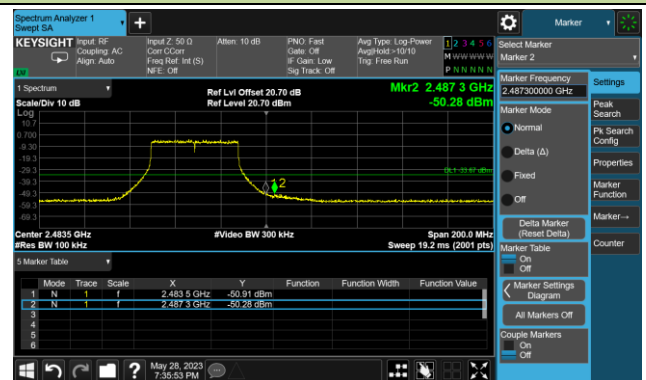
802.11ax-HE40 Out-of-Band Emissions – Ant 3

Channel 09 (2452MHz)

100kHz PSD Reference Level



High Band Edge



Spurious Emission



A.6 Radiated Spurious Emission Test Result

Test Site	SIP-AC1	Test Engineer	Mero Zhou
Test Date	2023-05-18	Test Mode:	802.11b
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	4952.5	49.8	-9.6	40.2	74.0	-33.8	Peak	Horizontal
	12237.0	46.6	-3.3	43.3	74.0	-30.7	Peak	Horizontal
	15926.0	44.8	3.5	48.3	74.0	-25.7	Peak	Horizontal
	4816.5	50.8	-10.0	40.8	74.0	-33.2	Peak	Vertical
	10792.0	47.3	-4.3	43.0	74.0	-31.0	Peak	Vertical
	15807.0	43.4	3.0	46.4	74.0	-27.6	Peak	Vertical
06	4867.5	50.4	-9.9	40.5	74.0	-33.5	Peak	Horizontal
	7621.5	48.1	-6.6	41.5	74.0	-32.5	Peak	Horizontal
	10987.5	47.3	-4.4	42.9	74.0	-31.1	Peak	Horizontal
	4731.5	50.3	-10.1	40.2	74.0	-33.8	Peak	Vertical
	8386.5	49.0	-5.8	43.2	74.0	-30.8	Peak	Vertical
	11489.0	47.7	-3.8	43.9	74.0	-30.1	Peak	Vertical
11	4867.5	50.5	-9.9	40.6	74.0	-33.4	Peak	Horizontal
	8378.0	47.7	-5.5	42.2	74.0	-31.8	Peak	Horizontal
	11506.0	46.5	-3.7	42.8	74.0	-31.2	Peak	Horizontal
	4774.0	50.0	-9.7	40.3	74.0	-33.7	Peak	Vertical
	8378.0	47.4	-5.5	41.9	74.0	-32.1	Peak	Vertical
	11701.5	47.2	-4.0	43.2	74.0	-30.8	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC1	Test Engineer	Mero Zhou
Test Date	2023-05-18	Test Mode:	802.11g
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	4791.0	50.1	-9.9	40.2	74.0	-33.8	Peak	Horizontal
	8216.5	48.8	-5.7	43.1	74.0	-30.9	Peak	Horizontal
	11344.5	47.3	-3.9	43.4	74.0	-30.6	Peak	Horizontal
	4757.0	50.8	-10.1	40.7	74.0	-33.3	Peak	Vertical
	8378.0	47.7	-5.5	42.2	74.0	-31.8	Peak	Vertical
	11565.5	47.4	-3.9	43.5	74.0	-30.5	Peak	Vertical
06	4910.0	50.0	-9.8	40.2	74.0	-33.8	Peak	Horizontal
	8165.5	47.6	-5.8	41.8	74.0	-32.2	Peak	Horizontal
	12509.0	46.4	-2.7	43.7	74.0	-30.3	Peak	Horizontal
	4723.0	50.1	-10.1	40.0	74.0	-34.0	Peak	Vertical
	8403.5	48.6	-6.0	42.6	74.0	-31.4	Peak	Vertical
	11582.5	47.0	-3.9	43.1	74.0	-30.9	Peak	Vertical
11	4859.0	49.5	-9.9	39.6	74.0	-34.4	Peak	Horizontal
	8225.0	46.9	-5.7	41.2	74.0	-32.8	Peak	Horizontal
	12500.5	45.5	-2.7	42.8	74.0	-31.2	Peak	Horizontal
	4731.5	50.4	-10.1	40.3	74.0	-33.7	Peak	Vertical
	7630.0	48.7	-6.5	42.2	74.0	-31.8	Peak	Vertical
	11489.0	47.3	-3.8	43.5	74.0	-30.5	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m) Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)								

Test Site	SIP-AC1	Test Engineer	Mero Zhou
Test Date	2023-05-18	Test Mode:	802.11n-HT20
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	4774.0	50.0	-9.7	40.3	74.0	-33.7	Peak	Horizontal
	8284.5	47.8	-5.6	42.2	74.0	-31.8	Peak	Horizontal
	11659.0	47.5	-3.9	43.6	74.0	-30.4	Peak	Horizontal
	4799.5	50.5	-10.0	40.5	74.0	-33.5	Peak	Vertical
	8250.5	48.0	-5.6	42.4	74.0	-31.6	Peak	Vertical
	11489.0	47.6	-3.8	43.8	74.0	-30.2	Peak	Vertical
06	4731.5	50.9	-10.1	40.8	74.0	-33.2	Peak	Horizontal
	8369.5	47.7	-5.5	42.2	74.0	-31.8	Peak	Horizontal
	11582.5	46.6	-3.9	42.7	74.0	-31.3	Peak	Horizontal
	4986.5	49.8	-9.7	40.1	74.0	-33.9	Peak	Vertical
	8216.5	47.2	-5.7	41.5	74.0	-32.5	Peak	Vertical
	11693.0	47.4	-3.9	43.5	74.0	-30.5	Peak	Vertical
11	4774.0	50.0	-9.7	40.3	74.0	-33.7	Peak	Horizontal
	8361.0	47.4	-5.5	41.9	74.0	-32.1	Peak	Horizontal
	11574.0	47.6	-3.9	43.7	74.0	-30.3	Peak	Horizontal
	5046.0	50.3	-9.8	40.5	74.0	-33.5	Peak	Vertical
	8369.5	47.7	-5.5	42.2	74.0	-31.8	Peak	Vertical
	11667.5	47.3	-4.1	43.2	74.0	-30.8	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m) Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)								

Test Site	SIP-AC1	Test Engineer	Mero Zhou
Test Date	2023-05-18	Test Mode:	802.11n-HT40
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
03	4791.0	49.9	-9.9	40.0	74.0	-34.0	Peak	Horizontal
	8191.0	47.7	-5.6	42.1	74.0	-31.9	Peak	Horizontal
	11948.0	46.5	-3.6	42.9	74.0	-31.1	Peak	Horizontal
	4884.5	50.6	-9.8	40.8	74.0	-33.2	Peak	Vertical
	7689.5	48.4	-6.3	42.1	74.0	-31.9	Peak	Vertical
	12041.5	46.6	-3.6	43.0	74.0	-31.0	Peak	Vertical
06	4731.5	50.6	-10.1	40.5	74.0	-33.5	Peak	Horizontal
	8480.0	47.8	-5.6	42.2	74.0	-31.8	Peak	Horizontal
	11489.0	46.5	-3.8	42.7	74.0	-31.3	Peak	Horizontal
	4884.5	49.7	-9.8	39.9	74.0	-34.1	Peak	Vertical
	8378.0	48.3	-5.5	42.8	74.0	-31.2	Peak	Vertical
	11489.0	46.6	-3.8	42.8	74.0	-31.2	Peak	Vertical
09	4731.5	50.5	-10.1	40.4	74.0	-33.6	Peak	Horizontal
	8378.0	48.3	-5.5	42.8	74.0	-31.2	Peak	Horizontal
	11489.0	46.6	-3.8	42.8	74.0	-31.2	Peak	Horizontal
	4978.0	49.9	-9.7	40.2	74.0	-33.8	Peak	Vertical
	8174.0	47.3	-5.9	41.4	74.0	-32.6	Peak	Vertical
	11914.0	46.7	-3.8	42.9	74.0	-31.1	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC1	Test Engineer	Mero Zhou
Test Date	2023-05-18	Test Mode:	802.11ax-HE20
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

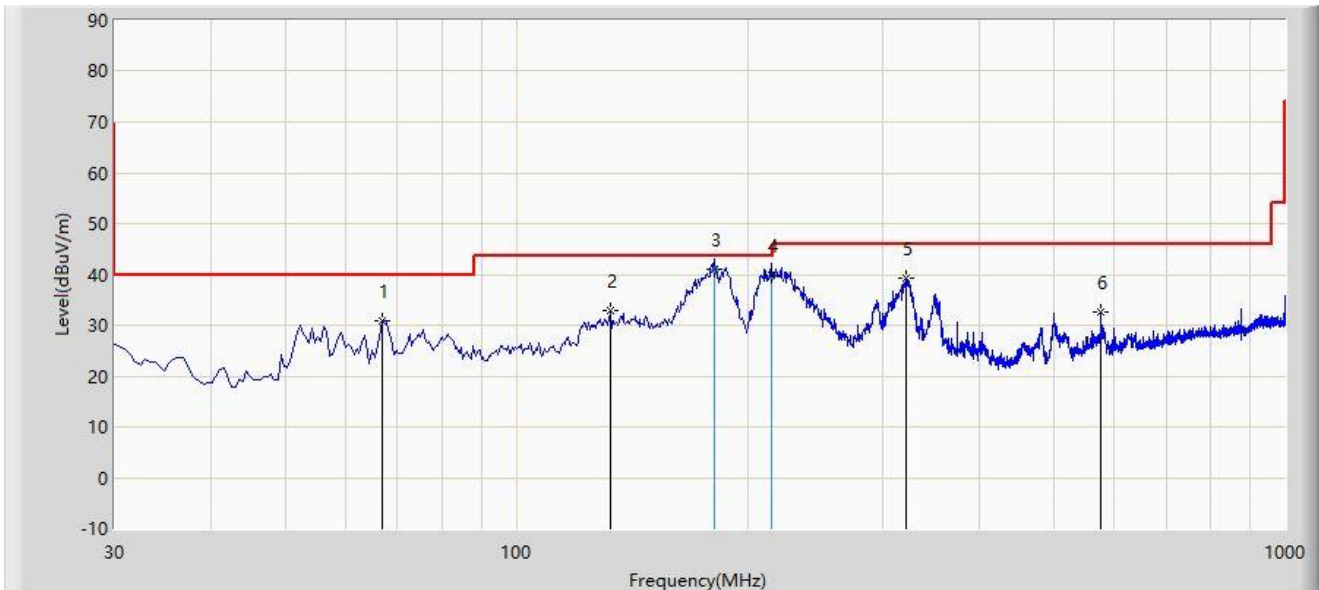
Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	4961.0	49.7	-9.5	40.2	74.0	-33.8	Peak	Horizontal
	8259.0	48.4	-5.5	42.9	74.0	-31.1	Peak	Horizontal
	12194.5	46.7	-3.3	43.4	74.0	-30.6	Peak	Horizontal
	4723.0	50.7	-10.1	40.6	74.0	-33.4	Peak	Vertical
	8208.0	48.2	-5.8	42.4	74.0	-31.6	Peak	Vertical
	12101.0	46.8	-3.4	43.4	74.0	-30.6	Peak	Vertical
06	4944.0	50.0	-9.6	40.4	74.0	-33.6	Peak	Horizontal
	8480.0	48.4	-5.6	42.8	74.0	-31.2	Peak	Horizontal
	11659.0	47.4	-3.9	43.5	74.0	-30.5	Peak	Horizontal
	4850.5	50.4	-9.8	40.6	74.0	-33.4	Peak	Vertical
	8182.5	47.7	-5.8	41.9	74.0	-32.1	Peak	Vertical
	11514.5	47.1	-3.8	43.3	74.0	-30.7	Peak	Vertical
11	4833.5	50.1	-9.9	40.2	74.0	-33.8	Peak	Horizontal
	8199.5	47.6	-5.7	41.9	74.0	-32.1	Peak	Horizontal
	11990.5	47.2	-3.6	43.6	74.0	-30.4	Peak	Horizontal
	5003.5	50.9	-9.7	41.2	74.0	-32.8	Peak	Vertical
	8148.5	48.0	-5.9	42.1	74.0	-31.9	Peak	Vertical
	12458.0	46.3	-2.9	43.4	74.0	-30.6	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m) Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)								

Test Site	SIP-AC1	Test Engineer	Mero Zhou
Test Date	2023-05-18	Test Mode:	802.11ax-HE40
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
03	4842.0	49.6	-9.7	39.9	74.0	-34.1	Peak	Horizontal
	8225.0	47.1	-5.7	41.4	74.0	-32.6	Peak	Horizontal
	11514.5	46.5	-3.8	42.7	74.0	-31.3	Peak	Horizontal
	4884.5	50.6	-9.8	40.8	74.0	-33.2	Peak	Vertical
	8174.0	48.0	-5.9	42.1	74.0	-31.9	Peak	Vertical
	11557.0	47.6	-3.9	43.7	74.0	-30.3	Peak	Vertical
06	4731.5	51.2	-10.1	41.1	74.0	-32.9	Peak	Horizontal
	8191.0	47.9	-5.6	42.3	74.0	-31.7	Peak	Horizontal
	11837.5	46.7	-3.5	43.2	74.0	-30.8	Peak	Horizontal
	4774.0	50.8	-9.7	41.1	74.0	-32.9	Peak	Vertical
	8182.5	48.4	-5.8	42.6	74.0	-31.4	Peak	Vertical
	11591.0	47.2	-3.9	43.3	74.0	-30.7	Peak	Vertical
09	4791.0	50.5	-9.9	40.6	74.0	-33.4	Peak	Horizontal
	8344.0	48.1	-5.7	42.4	74.0	-31.6	Peak	Horizontal
	11582.5	47.0	-3.9	43.1	74.0	-30.9	Peak	Horizontal
	4850.5	51.2	-9.8	41.4	74.0	-32.6	Peak	Vertical
	8276.0	48.3	-5.4	42.9	74.0	-31.1	Peak	Vertical
	11829.0	47.6	-3.6	44.0	74.0	-30.0	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m) Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)								

The Result of Radiated Emission below 1GHz:

Site: SIP-AC1	Test Date: 2023-05-23
Limit: FCC_Part15.209_RSE(3m)	Engineer: Mero Zhou
Probe: VULB 9168_00998_25-2000MHz	Polarity: Horizontal
EUT: WiFi 6 (802.11ax) 4x4 MU-MIMO Tri Band Access point	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		66.860	30.988	14.622	-9.012	40.000	16.366	PK
2		132.820	32.988	16.159	-10.512	43.500	16.829	PK
3	*	180.835	41.073	24.700	-2.427	43.500	16.373	QP
4		214.300	39.773	25.200	-3.727	43.500	14.574	QP
5		321.970	39.156	20.116	-6.844	46.000	19.040	PK
6		576.110	32.539	7.993	-13.461	46.000	24.546	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

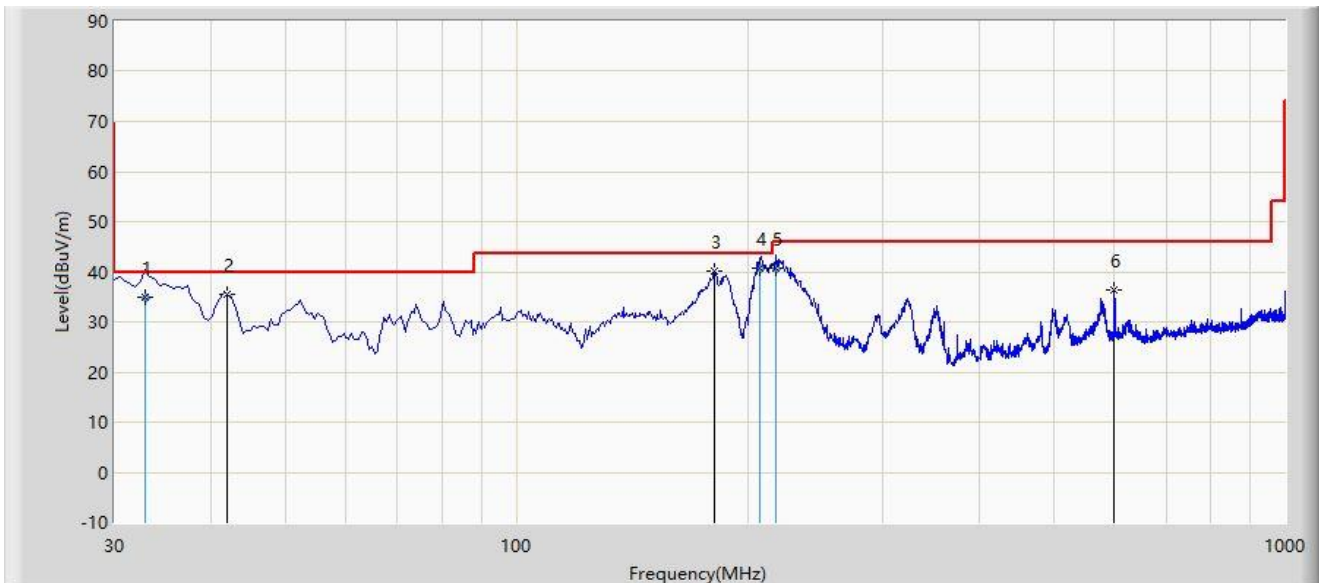
Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Note 5: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

Site: SIP-AC1	Test Date: 2023-05-23
Limit: FCC_Part15.209_RSE(3m)	Engineer: Mero Zhou
Probe: VULB 9168_00998_25-2000MHz	Polarity: Vertical
EUT: WiFi 6 (802.11ax) 4x4 MU-MIMO Tri Band Access point	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		32.910	35.058	18.000	-4.942	40.000	17.057	QP
2		42.125	35.607	18.063	-4.393	40.000	17.544	PK
3		181.320	40.252	23.910	-3.248	43.500	16.342	PK
4	*	207.025	40.858	26.400	-2.642	43.500	14.457	QP
5		217.210	40.666	25.900	-5.334	46.000	14.766	QP
6		599.875	36.282	10.776	-9.718	46.000	25.506	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

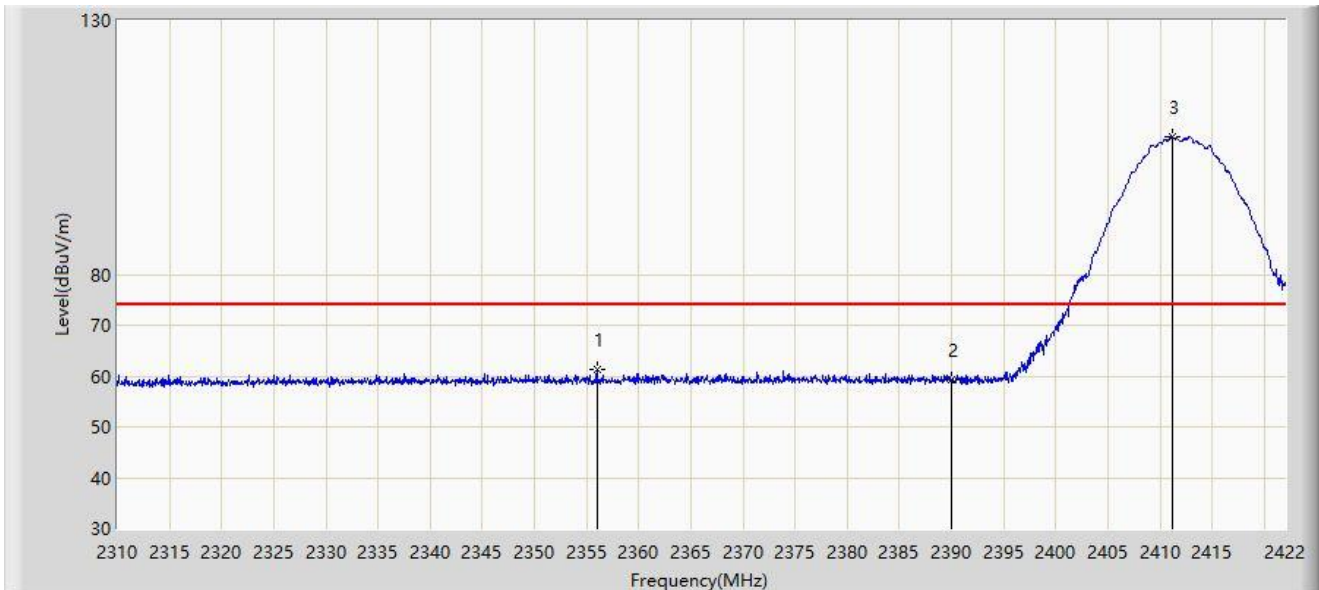
Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Note 5: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

Radiated Restricted Band Edge Test Result

Site: SIP-AC3	Test Date: 2023-05-14
Limit: FCC_2.4G_RE(3m)	Engineer: Barry Wu
Probe: HF907_102861_1-18GHz	Polarity: Horizontal
EUT: WiFi 6 (802.11ax) 4x4 MU-MIMO Tri Band Access point	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2355.976	61.316	29.468	-12.684	74.000	31.847	PK
2		2390.000	59.249	27.320	-14.751	74.000	31.929	PK
3		2411.136	107.220	75.142	N/A	N/A	32.078	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).